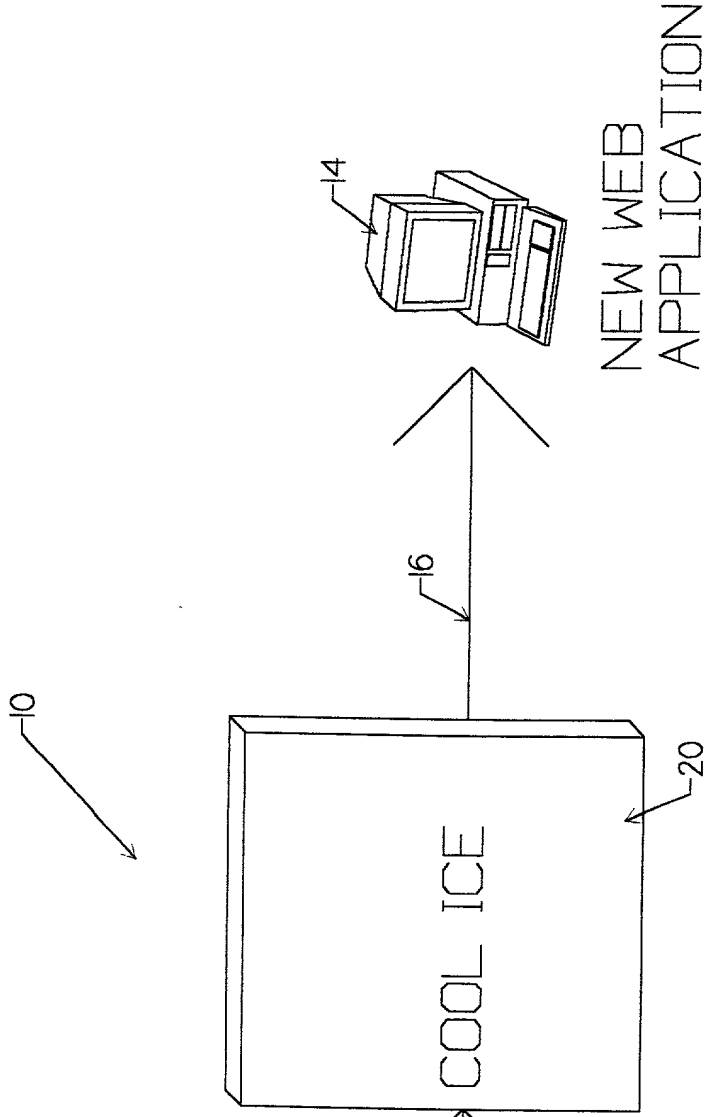


NEW WEB
APPLICATION



EXISTING
DATABASES AND
APPLICATIONS

FIG. 1

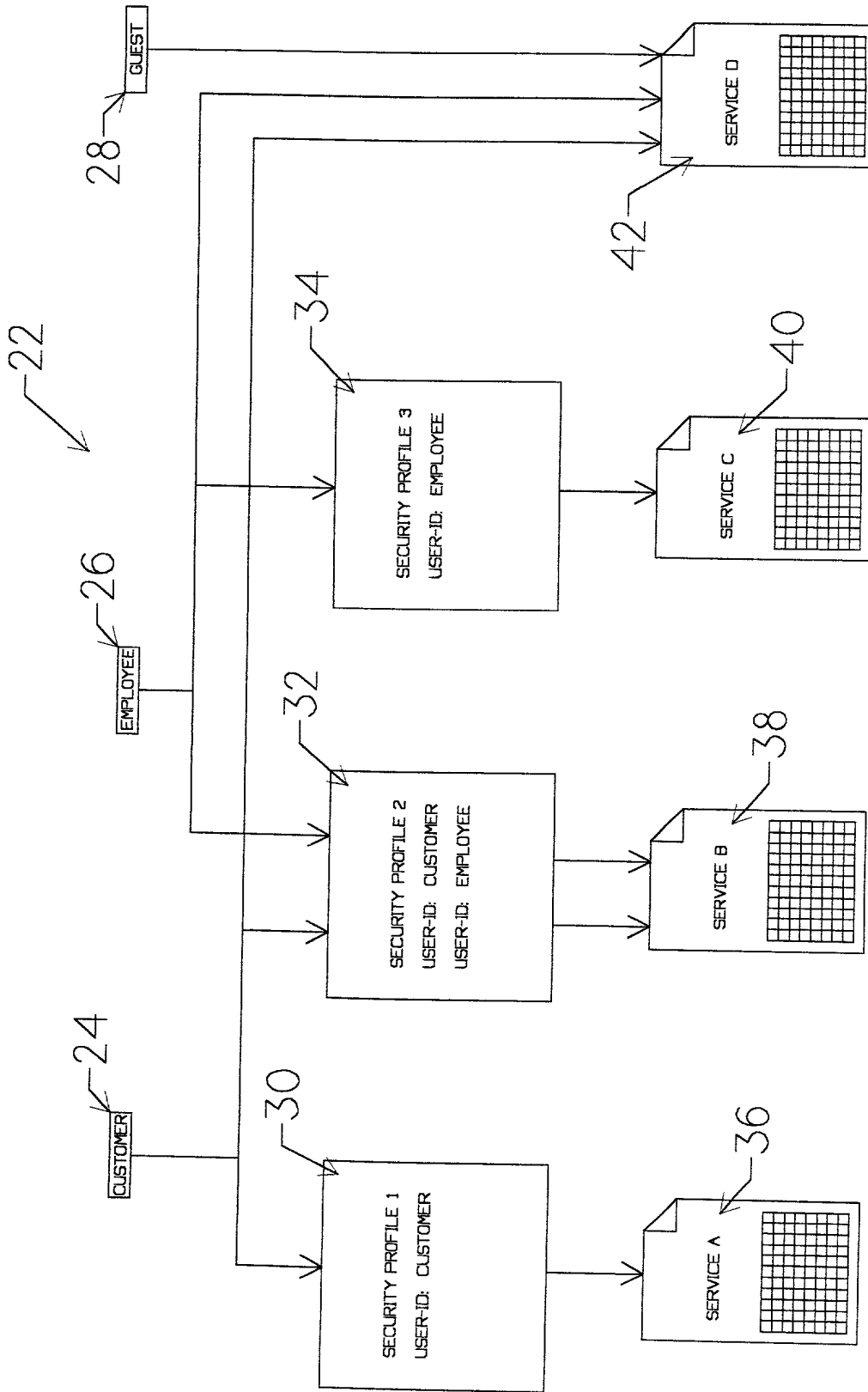


FIG. 2

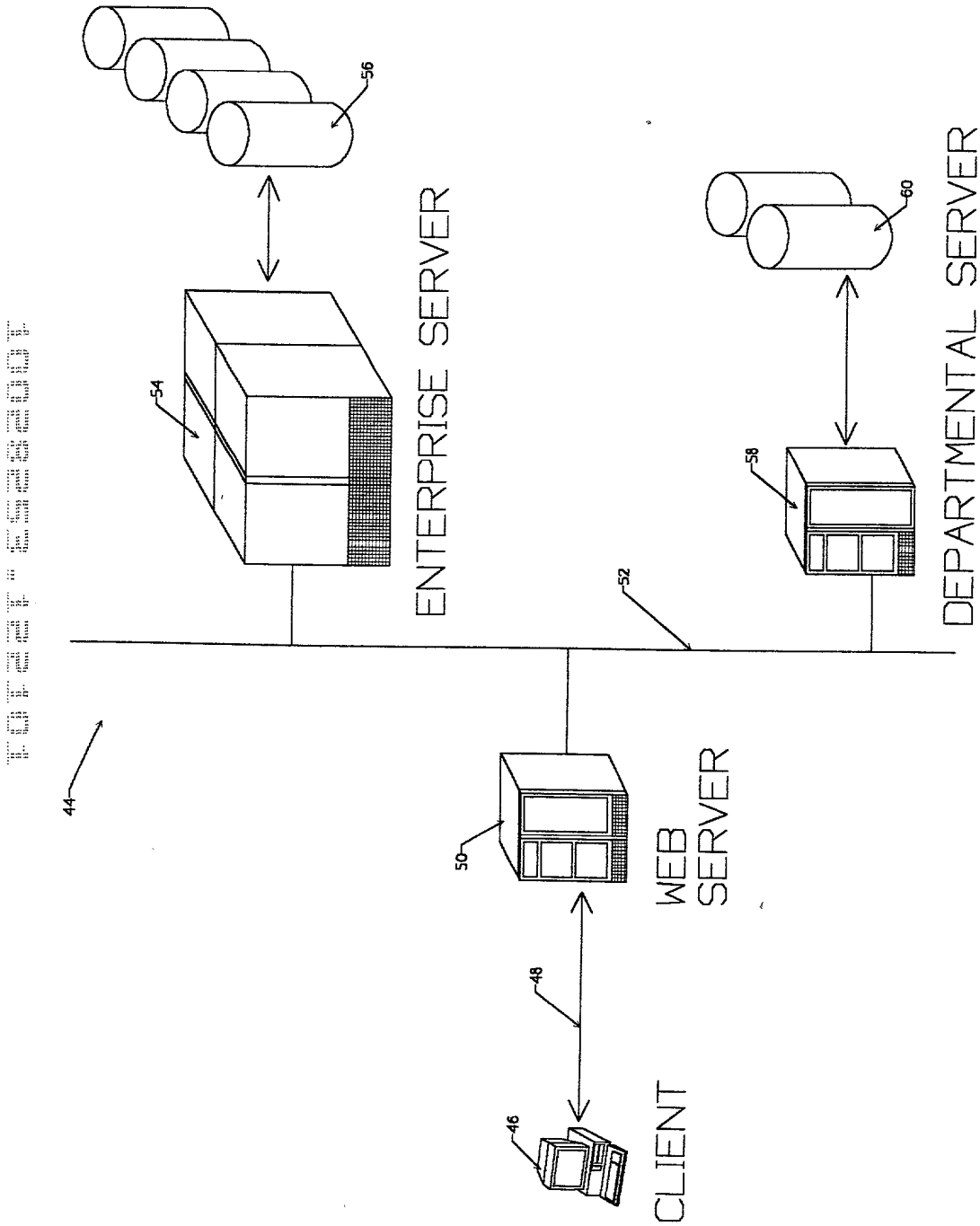


FIG. 3

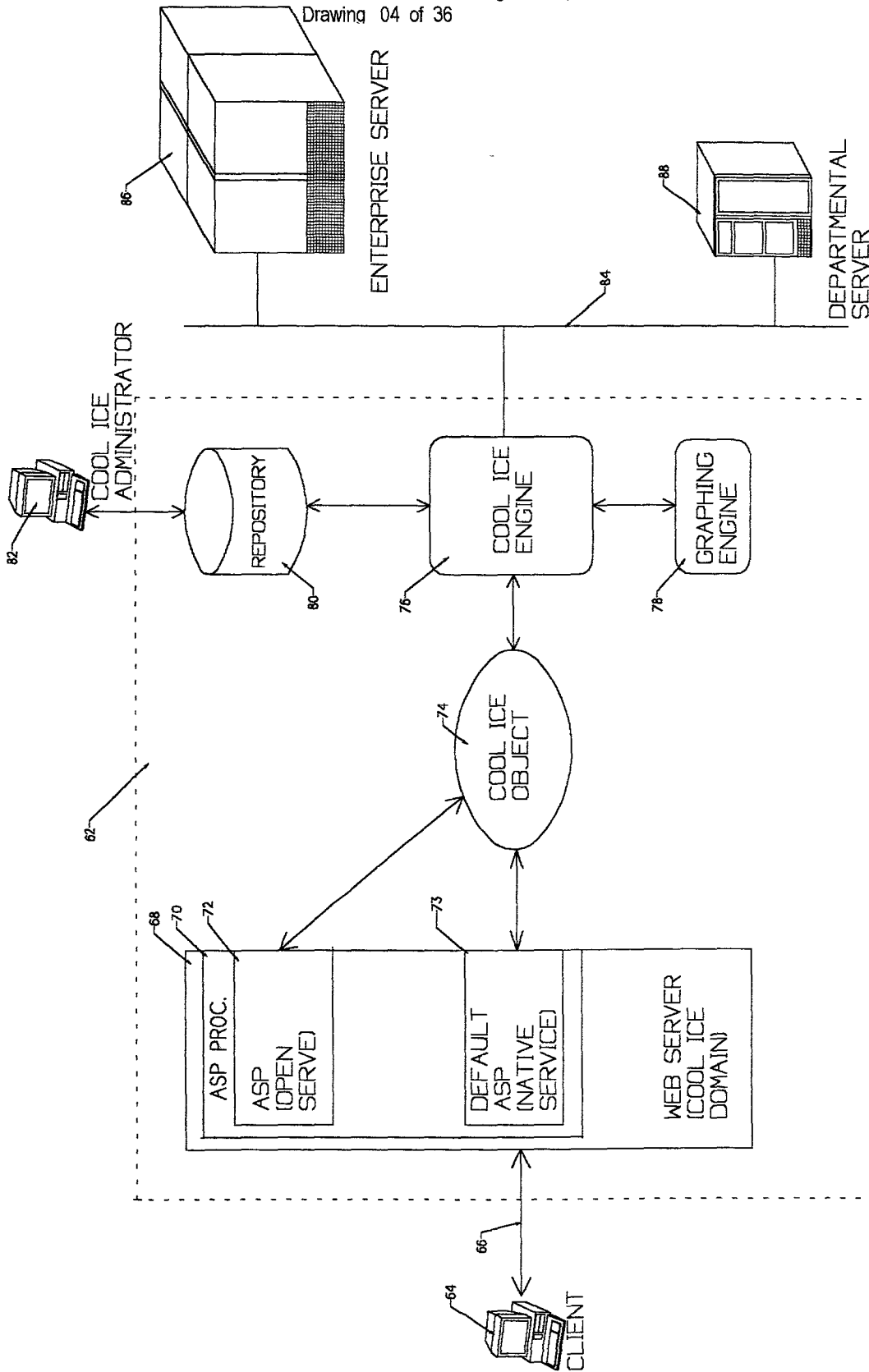


FIG. 4

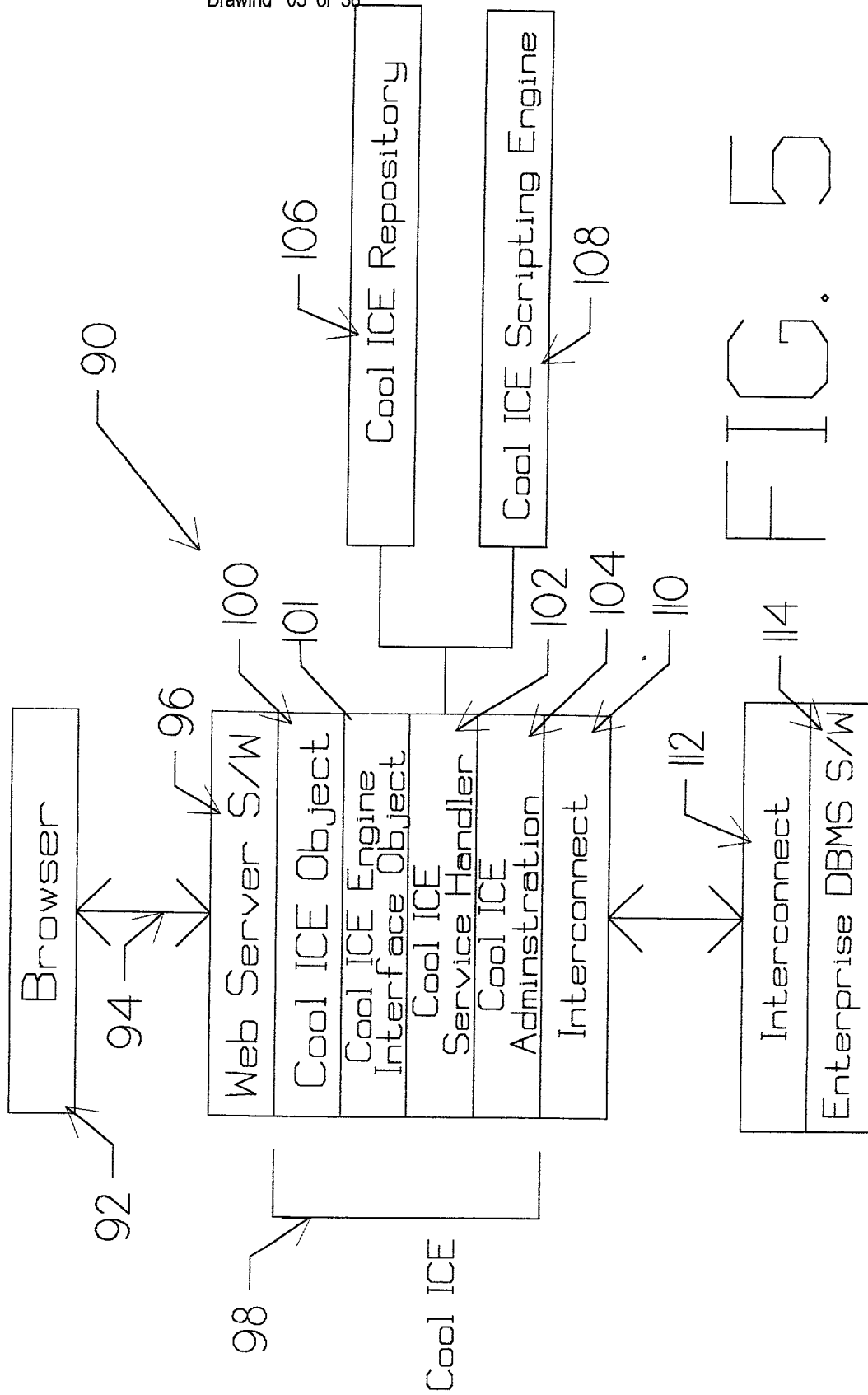


FIG. 5

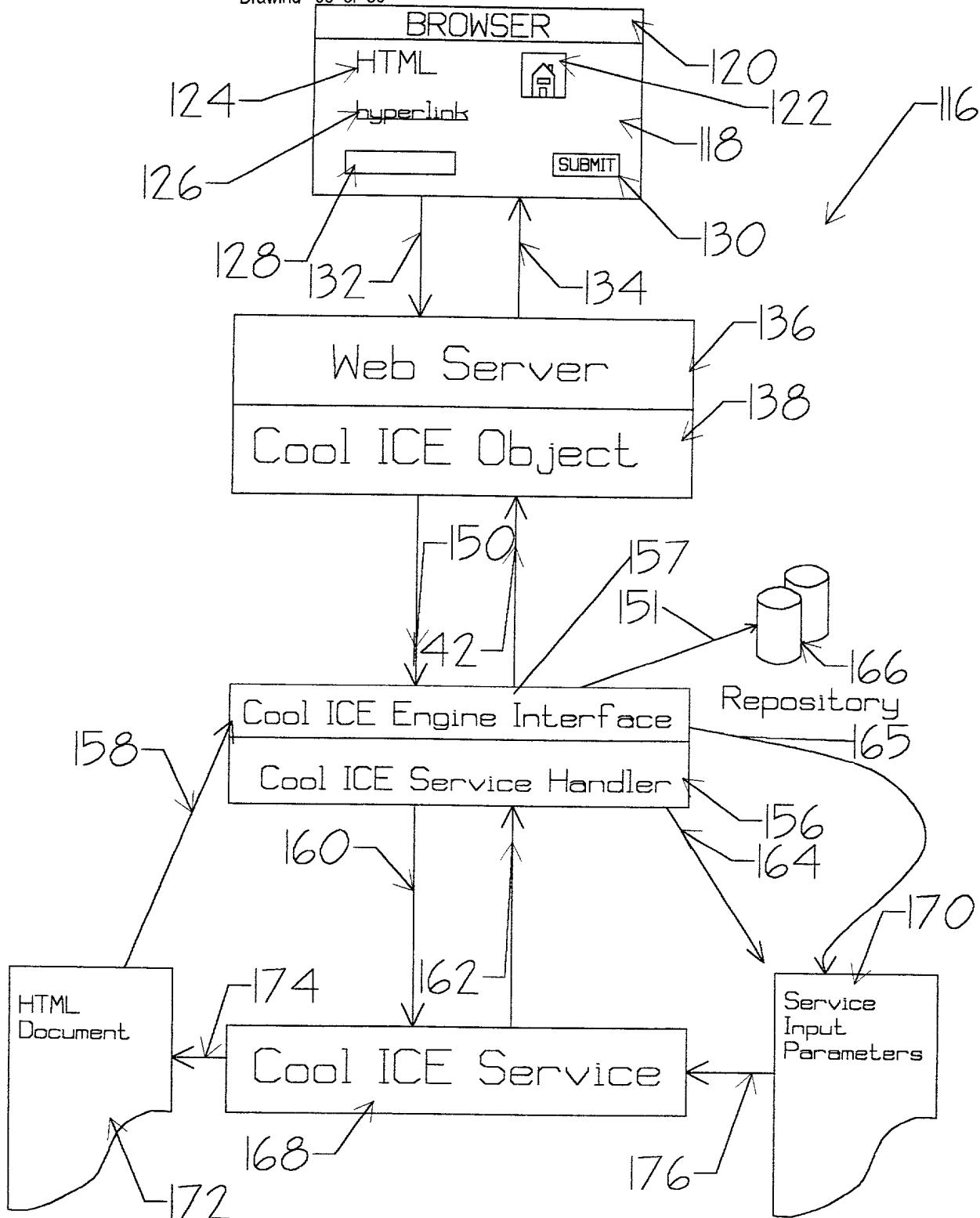


FIG. 6

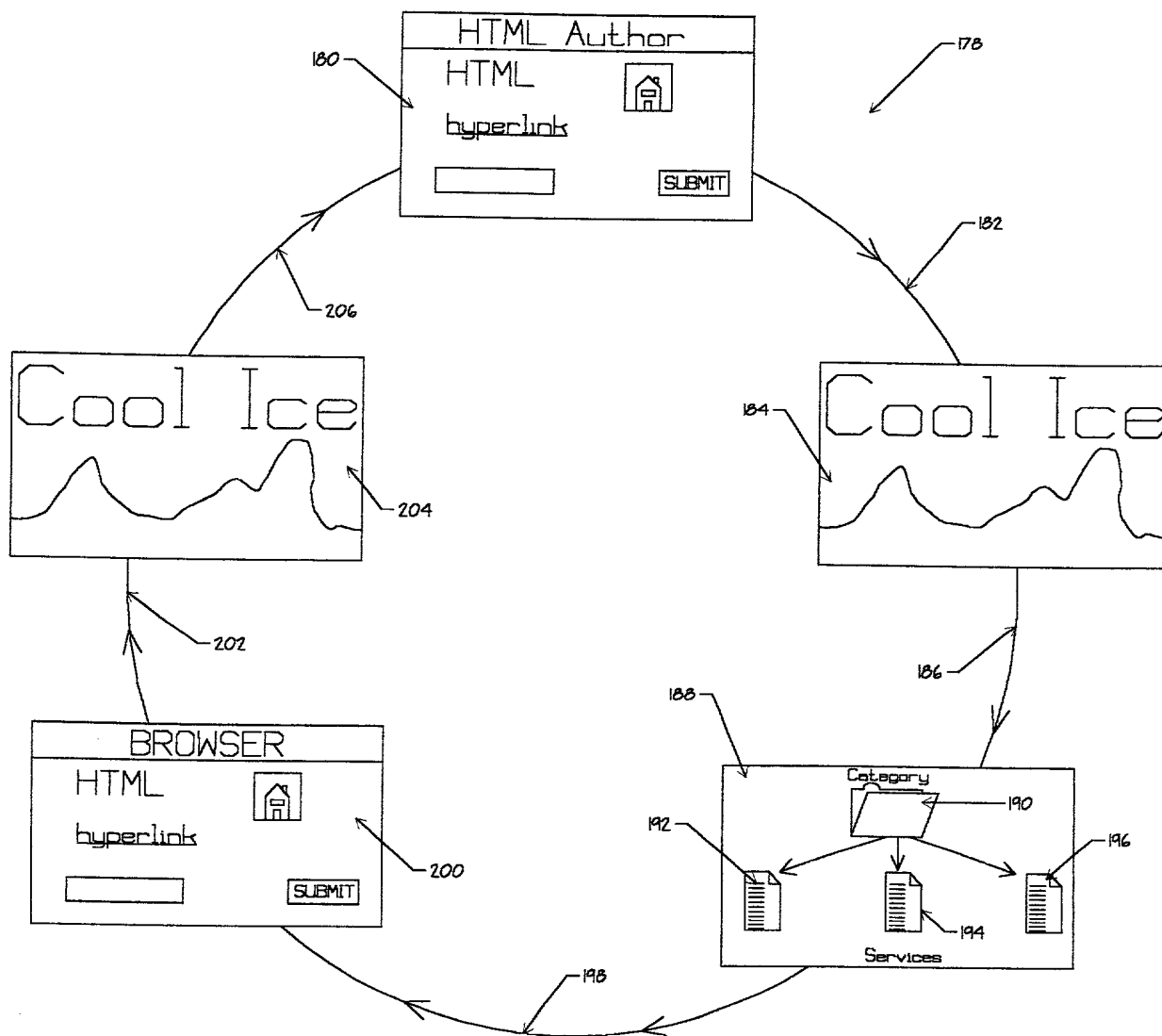


FIG. 7

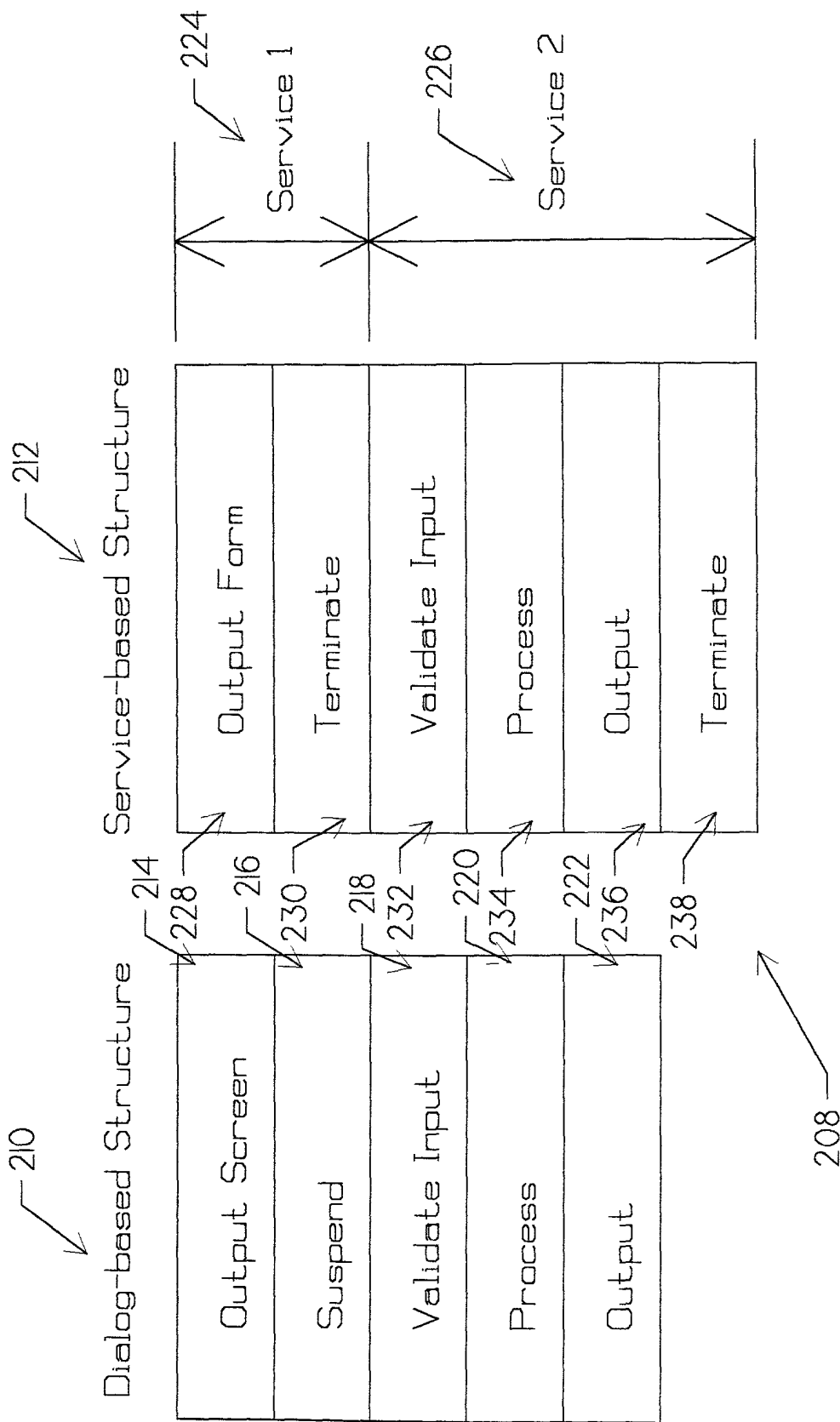


FIG. 8

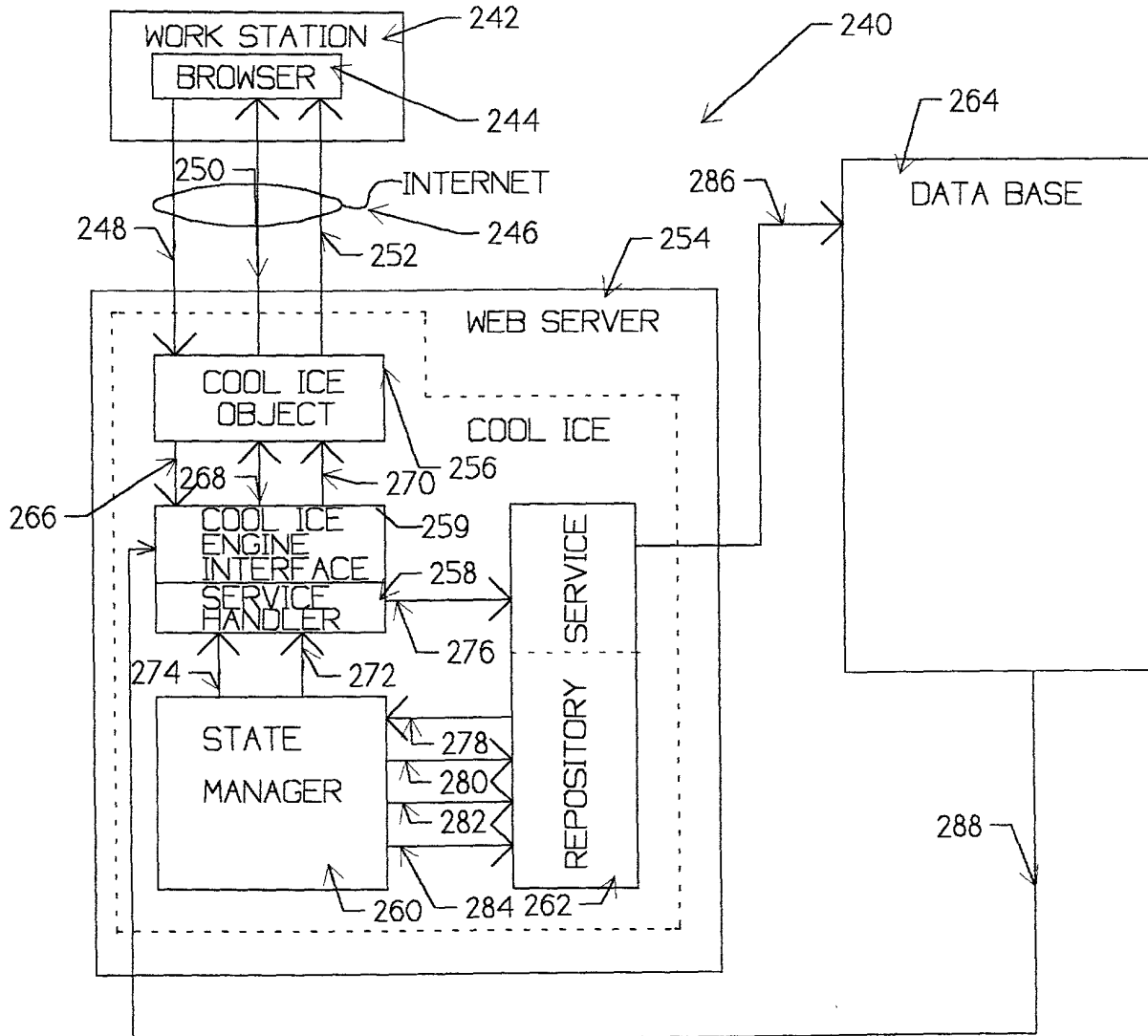


FIG. 9

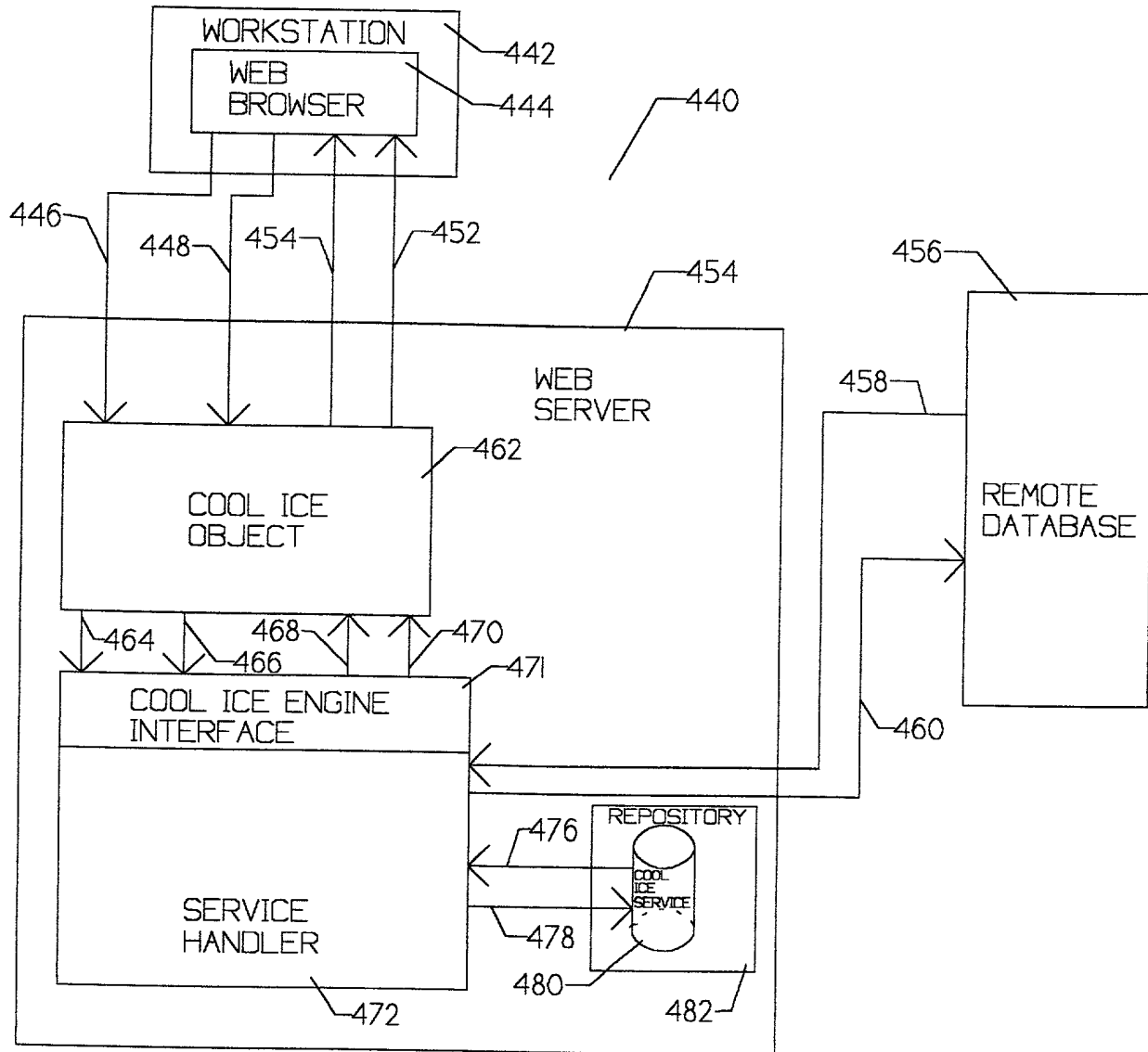


FIG. 10

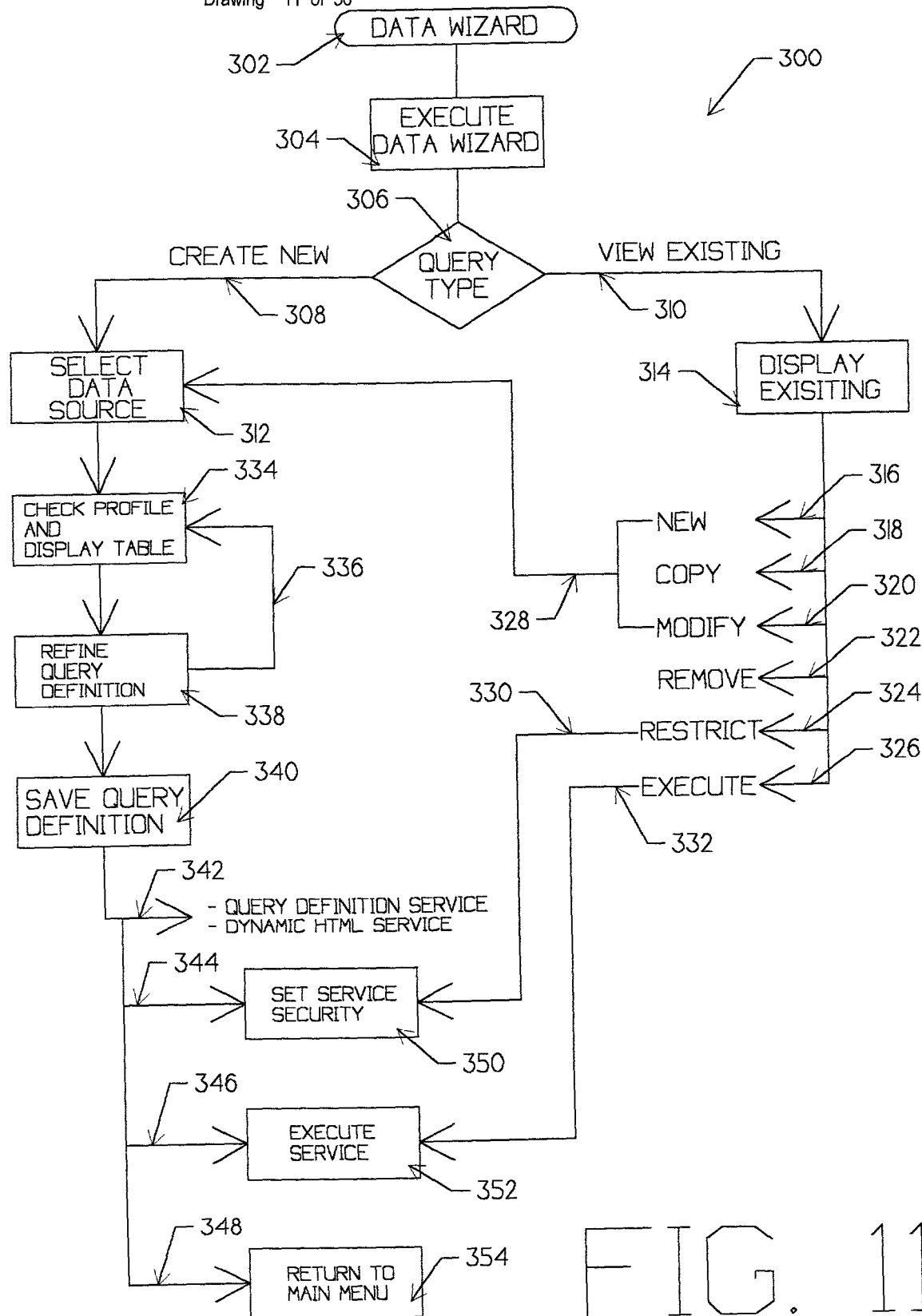


FIG. 11

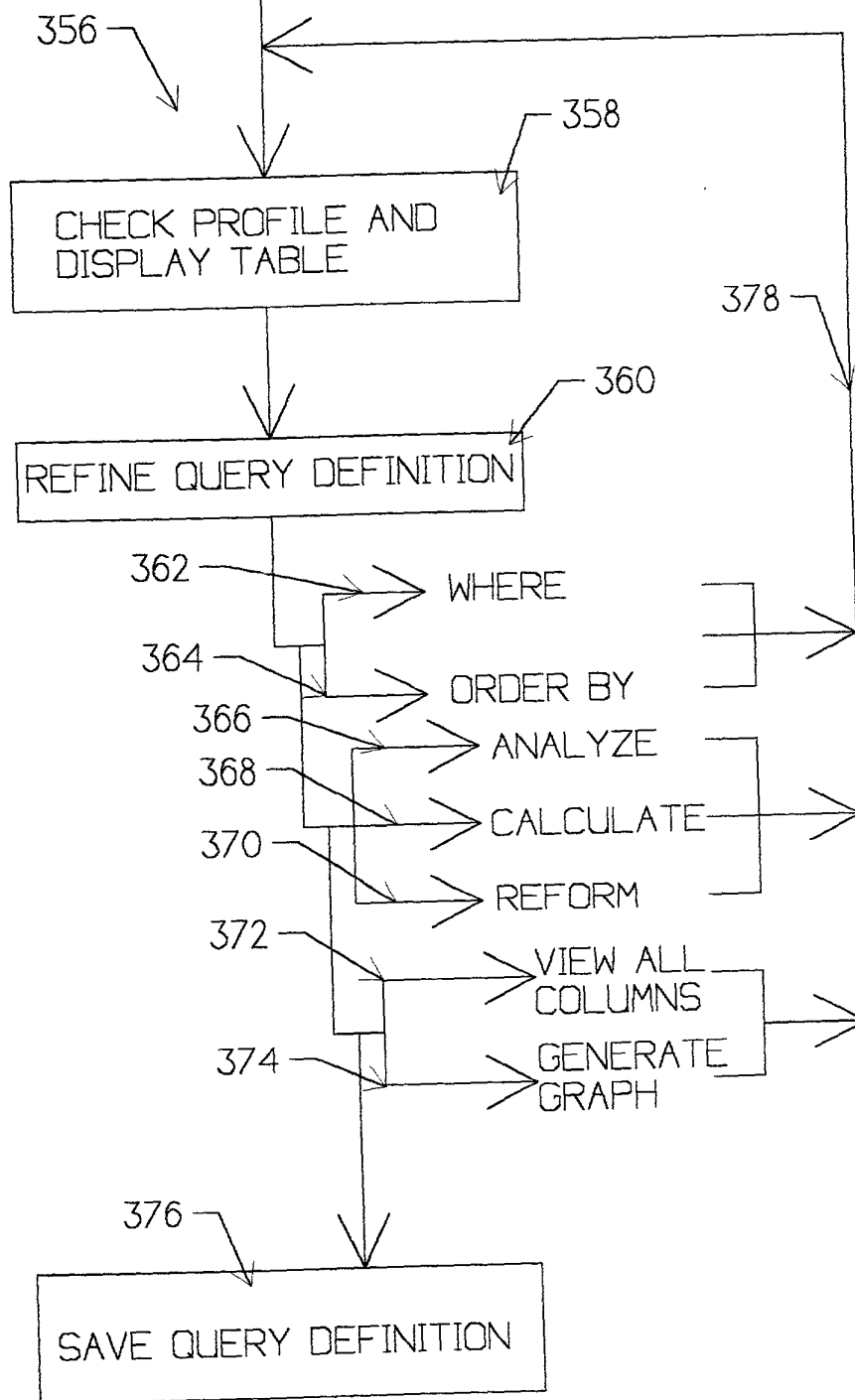


FIG. 12

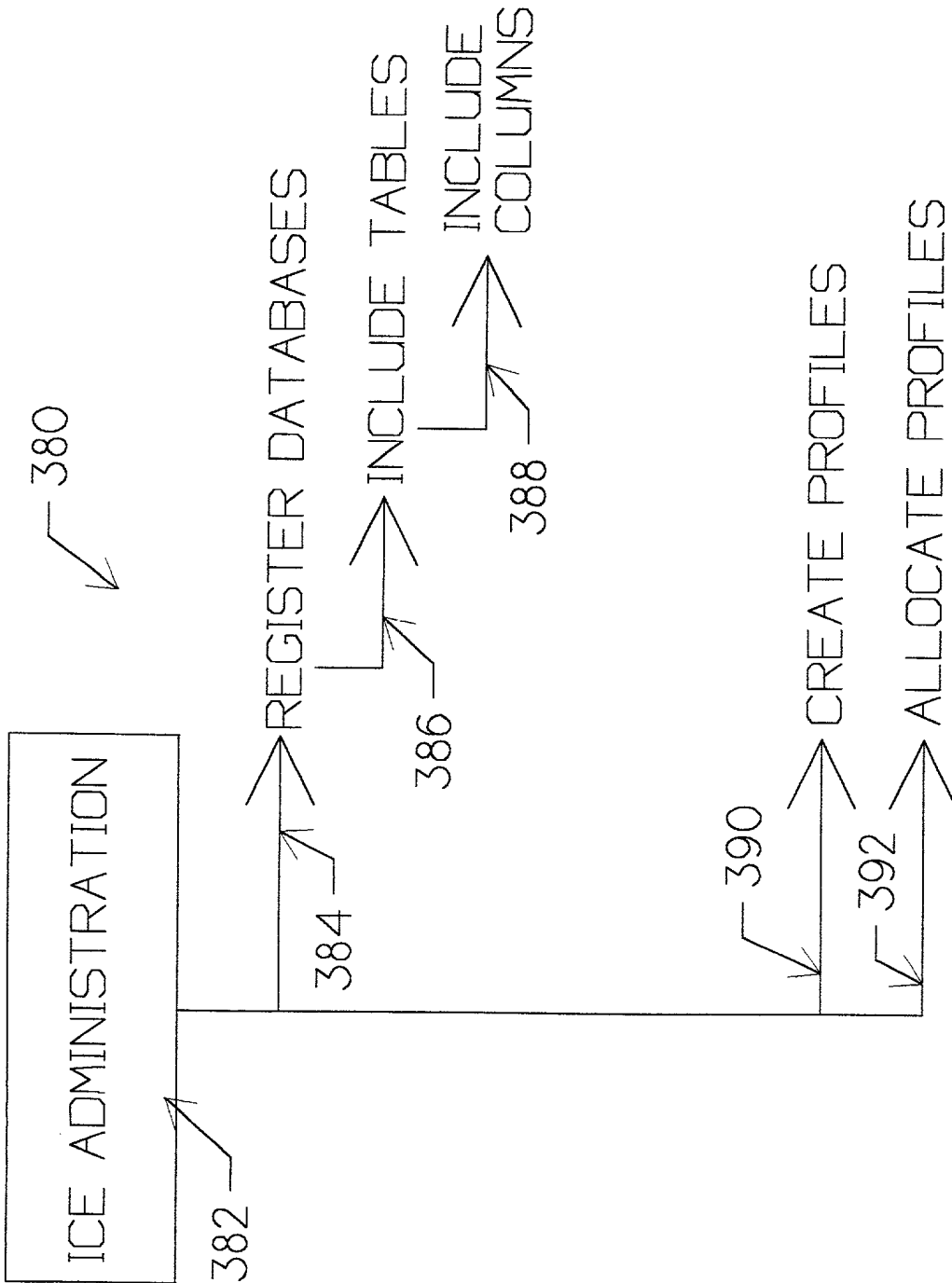


FIG. 13

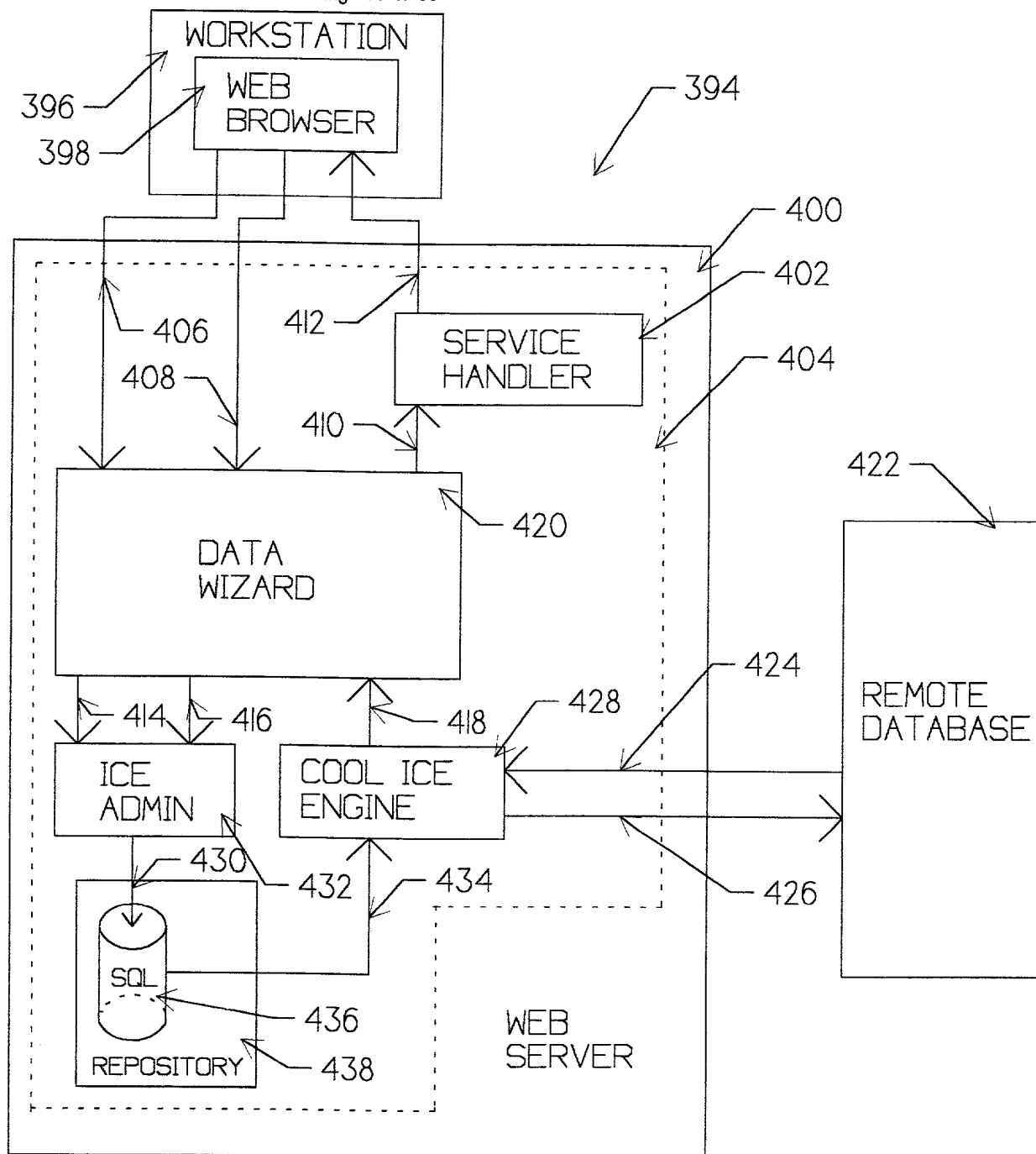


FIG. 14

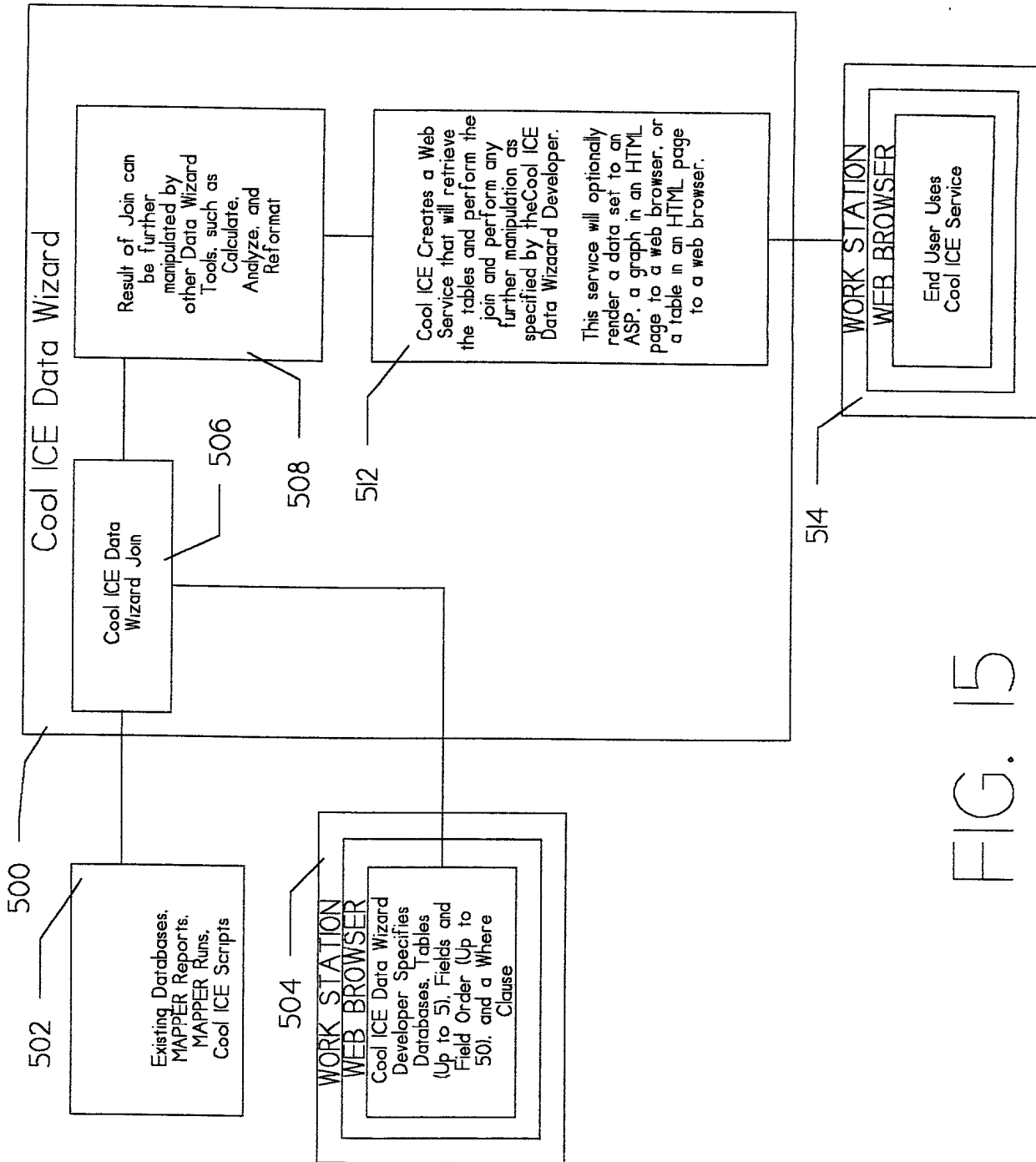
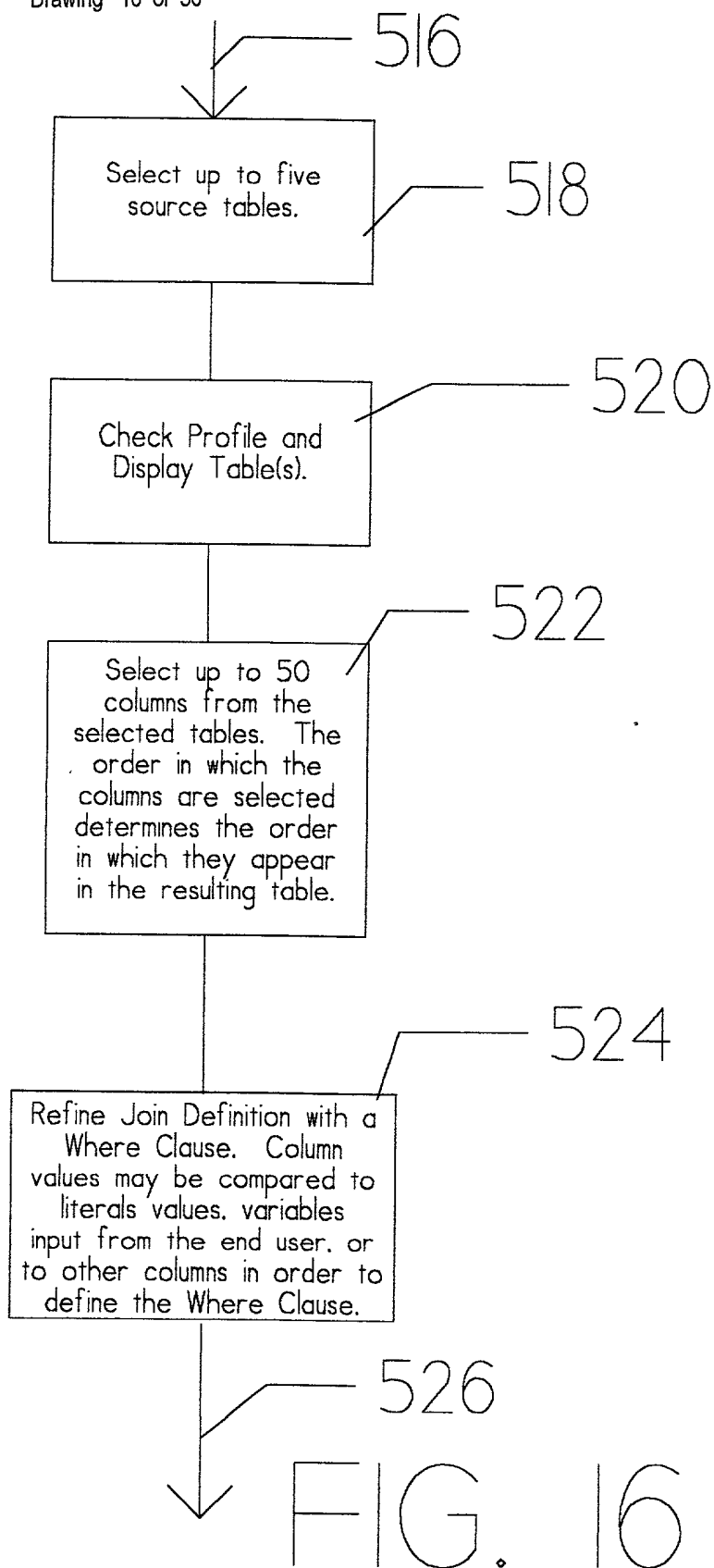


FIG. 15



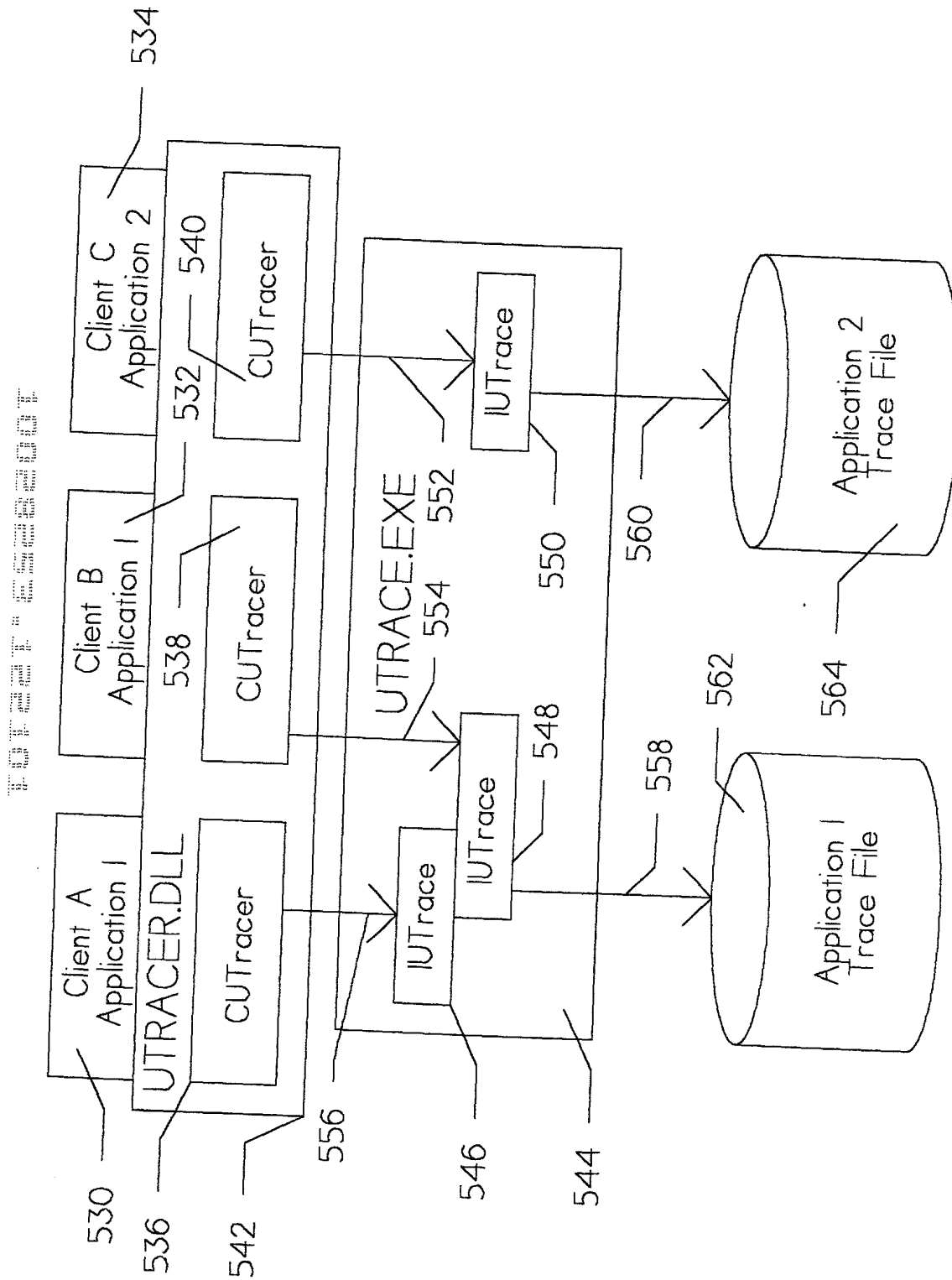


FIG. 17

HKLM\SOFTWARE\UNISYS\UTRACE

565

APPNAME -- Subkey matching the name of the application

ENABLETRACE -- DWORD value indicating a Boolean (=trace, 0=no trace).

MAXENTRIES -- DWORD value indicating the maximum number of entries in the trace file. If missing, then no upper limit is imposed.

FORMATFLAGS -- DWORD value indicating message formatting flags.

POLICYFLAGS -- DWORD value indicating trace policy flags set for the application.

TRACELEVEL -- DWORD value indicating a trace level. 0 = no trace.

TRACEPATH -- String value indicating the directory path for the trace files.

REGTRACE -- A string value containing the HKLM\Software sub key to trace for this application. Blank or missing for no registry trace.

COMPONENT -- A subkey for a specific component of the application.

POLICYFLAGS -- Value indicating component level trace policy flags

TRACELEVEL -- DWORD Value indicating a trace level. 0 = no trace.

VERSIONTRACE-- String value specifying executable component name for version information tracing.

FIG. 18

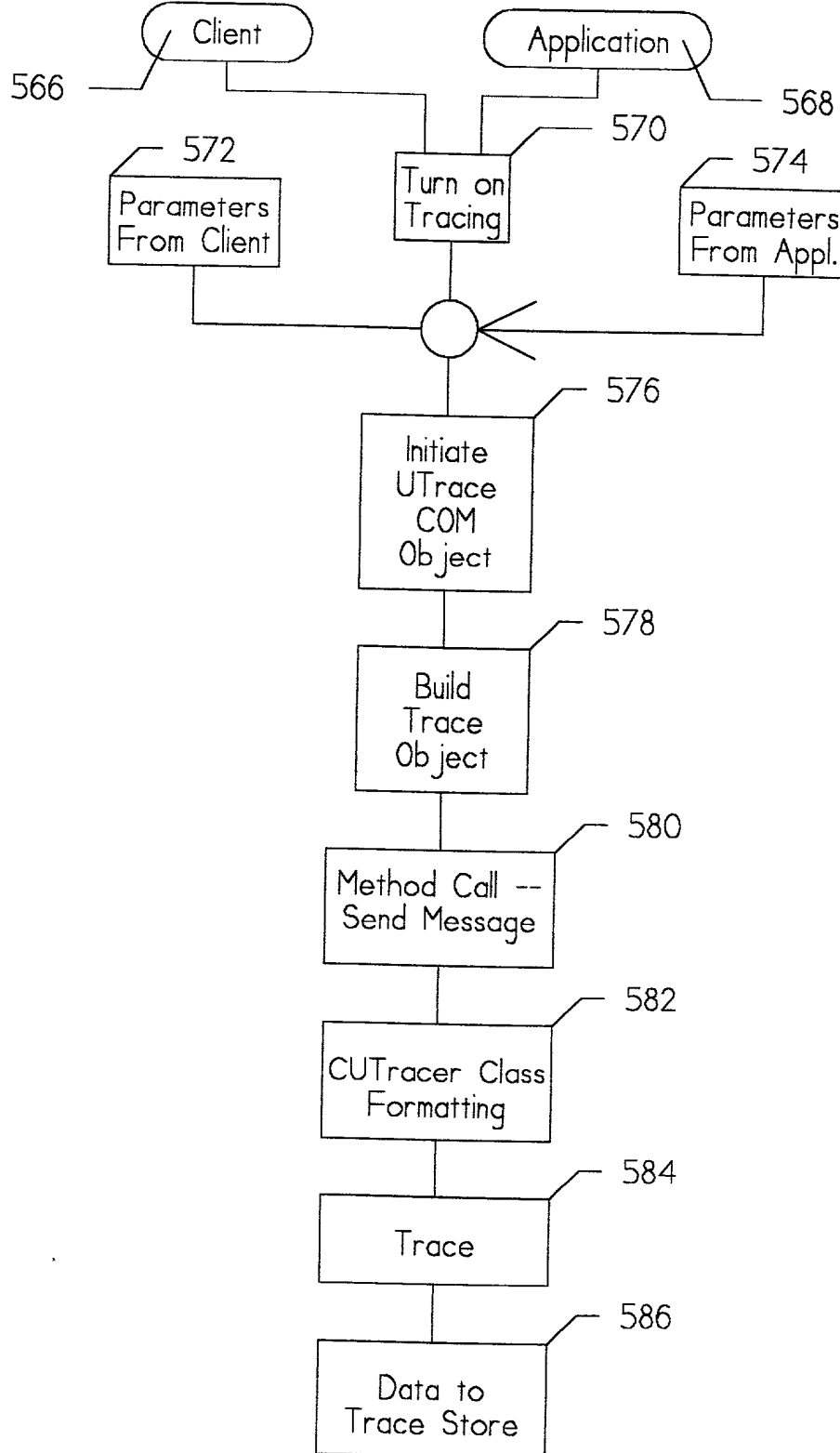


FIG. 19

```
#define CI_TRACE_VERSION      0x1  
#define CI_TRACE_ERROR       0x2  
#define CI_TRACE_INTERFACE   0x4  
#define CI_TRACE_FLOW        0x8  
#define CI_TRACE_DETAIL      0x10
```

FIG. 20A

```
if (m_trace.Active(CI_TRACE_DETAIL))  
m_trace<<"MY Detailed Trace information"<<Localvariable<<traceit
```

FIG. 20B

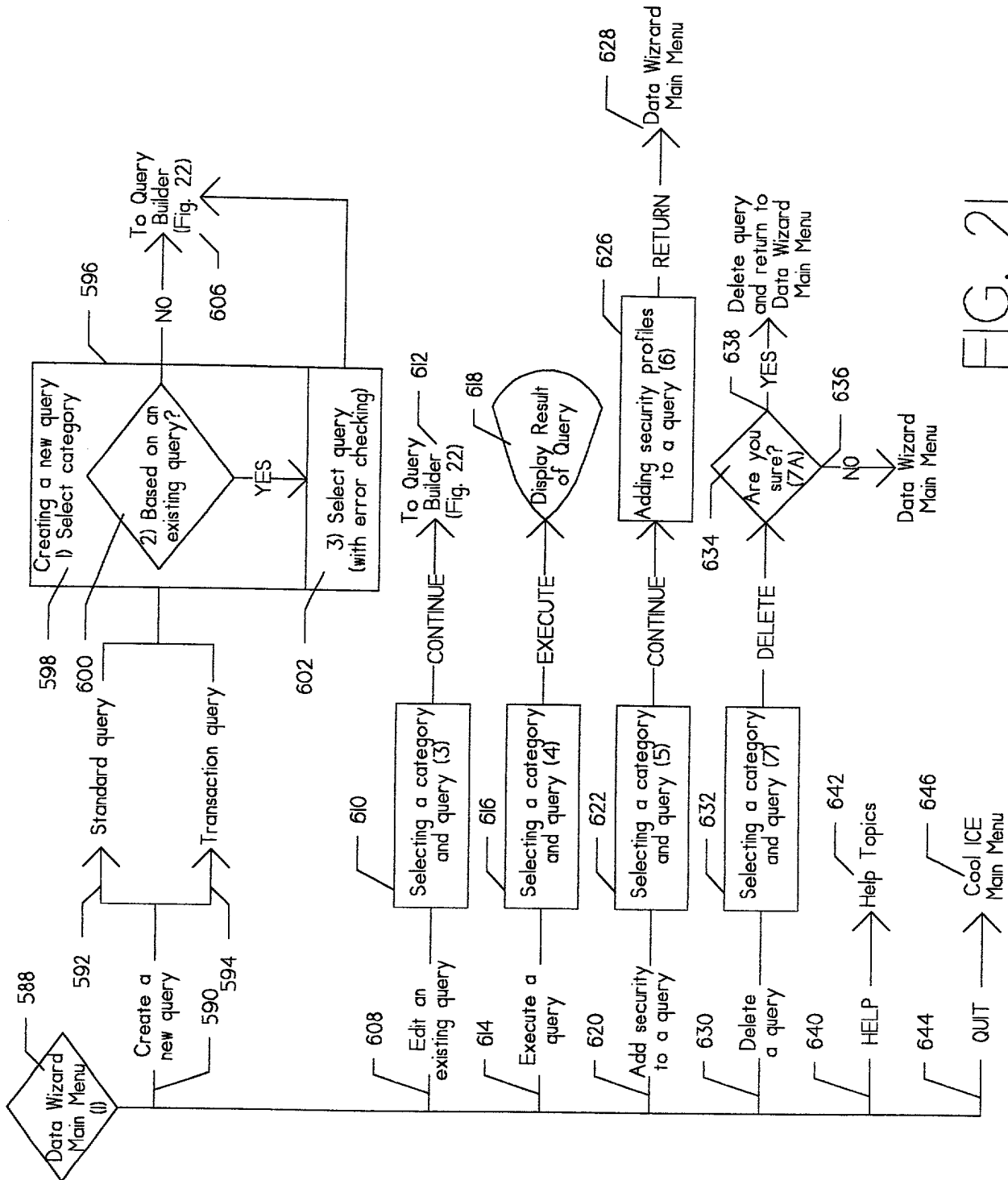


FIG. 21



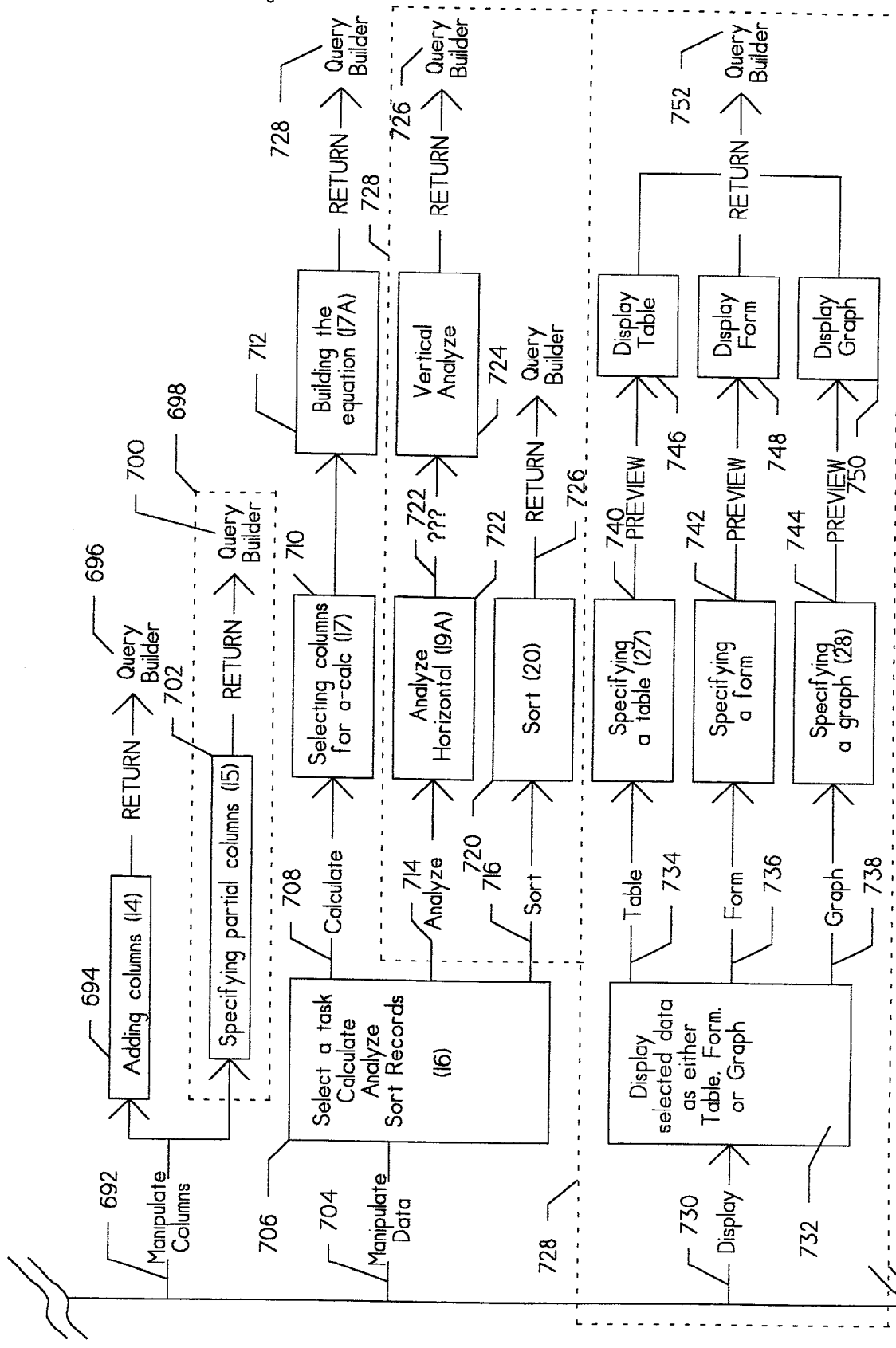


FIG. 22B

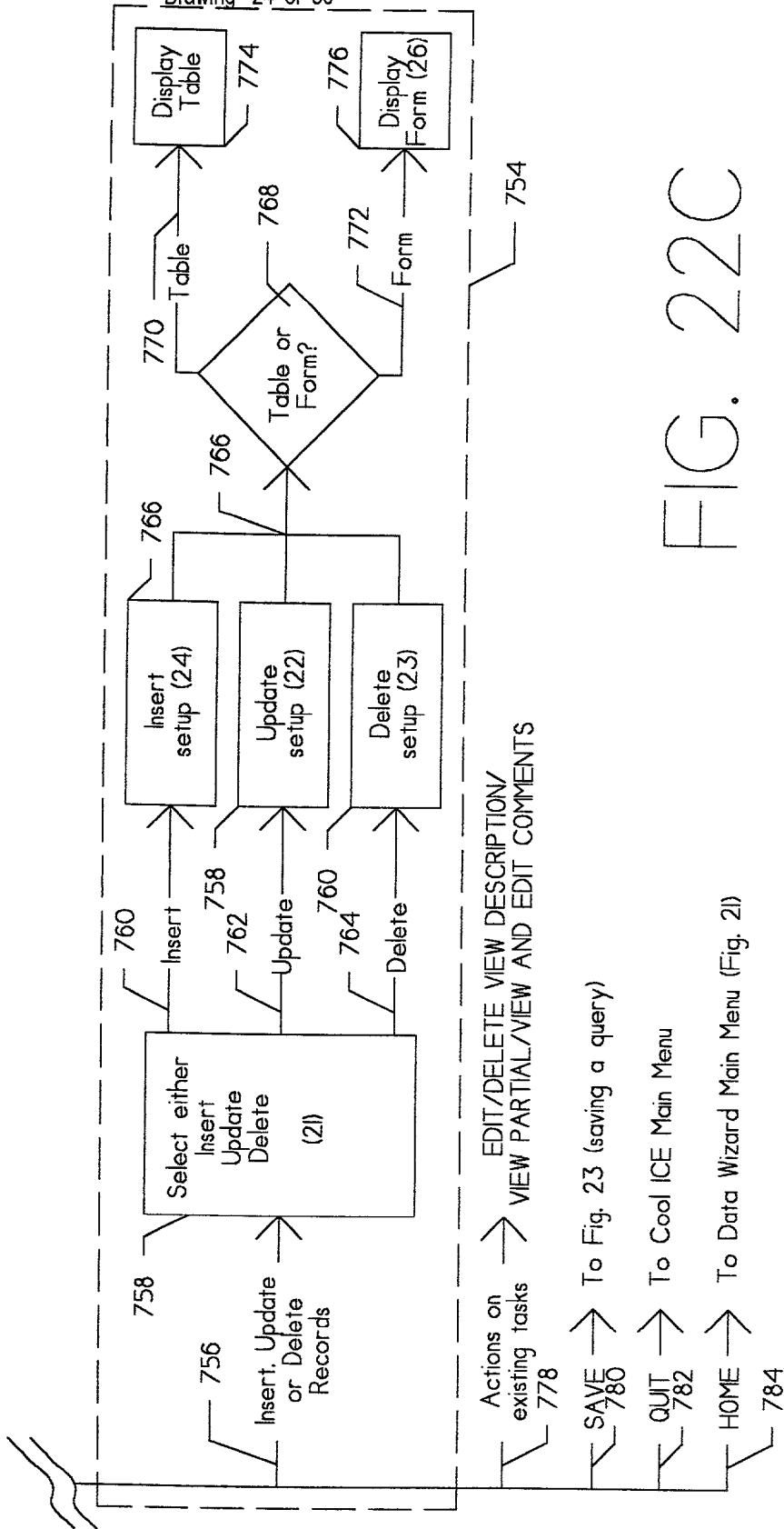


FIG. 22C

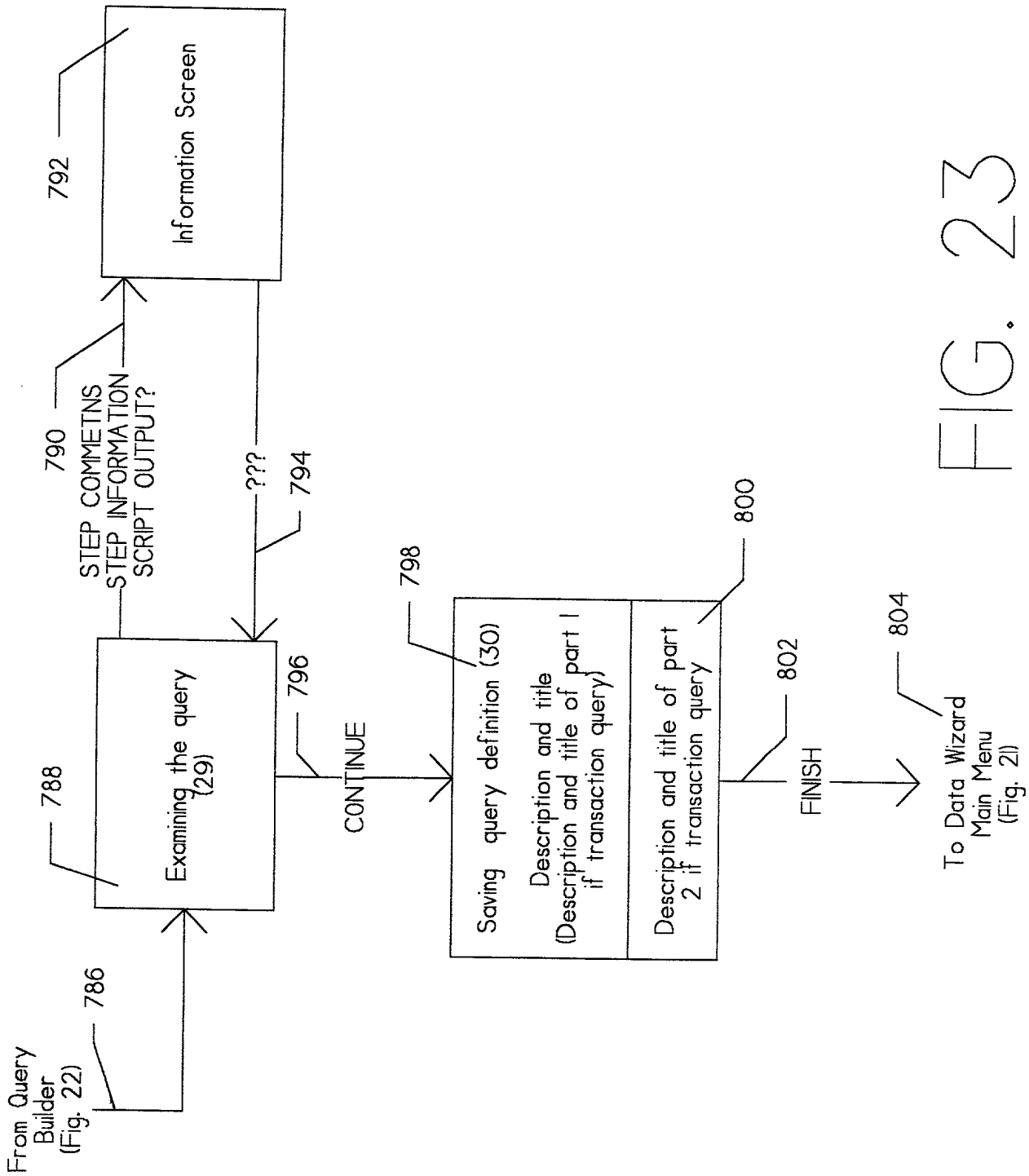


FIG. 23

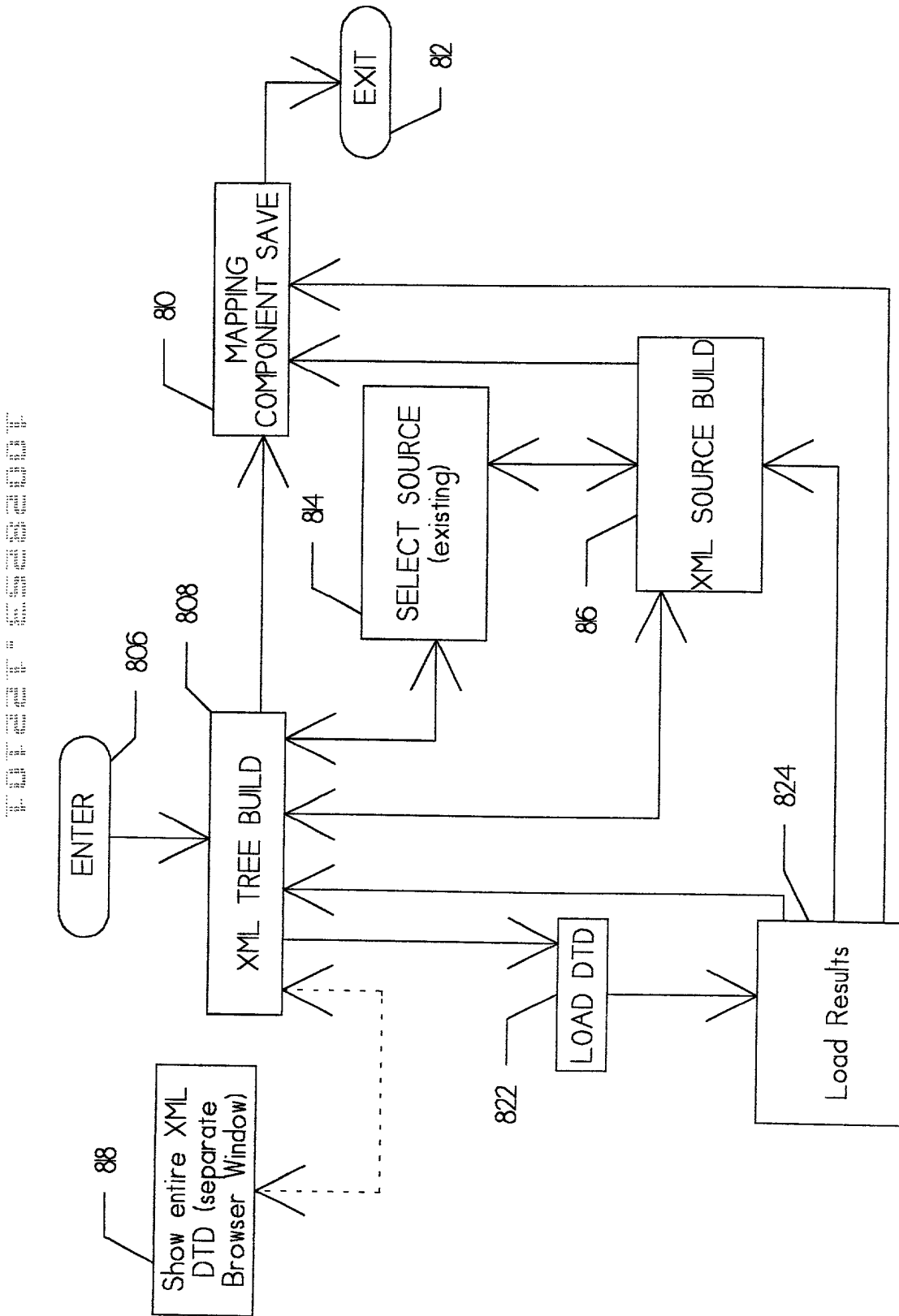


FIG. 24

XML-Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

UNISYS

Home Quit Cancel Help

828

830 XML MAPPING ELEMENTS

836 ELEMENTS 858

838 Newspaper

840 Article

842 Author

844 Editor

846 Date

848 Edition

850 Headline

852 Byline

854 Lead

Body

872 [Redisplay]

874 Sources

876 Save

CONTROLS

Mapping Type ☐ Open ☒ Mapped ☐ Name Conversion ☐ Capital ☐ 864

Table Mapping ☐ Complete ☒ 866

Element Properties

Item Type ☐ Sequence ☒ 860

Mapping ☐ Row Iterator ☒ 862

Value ☐ 863

Element Form ☐ Rpt ☒ 861

FIG. 25

826

XML - Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

838	<input type="checkbox"/> Newspaper	<input type="checkbox"/> Tables	Mapping Type <input type="checkbox"/> Open <input checked="" type="checkbox"/> M 868	Name Conversion <input type="checkbox"/> Capital 864
840	<input type="checkbox"/> Article	<input type="checkbox"/> Article	Table Mapping <input type="checkbox"/> Complete <input checked="" type="checkbox"/> M 866	
842	<input type="checkbox"/> Author	<input type="checkbox"/> Author	Element Properties	
844	<input type="checkbox"/> Editor	<input type="checkbox"/> Editor	Item Type <input type="checkbox"/> Sequence <input checked="" type="checkbox"/> M 860	Element Form <input type="checkbox"/> Rpt Rpt 861
846	<input type="checkbox"/> Date	<input type="checkbox"/> Date	Mapping <input type="checkbox"/> Row Iterator <input checked="" type="checkbox"/> M 862	Value <input type="checkbox"/> 863
848	<input type="checkbox"/> Edition	<input type="checkbox"/> Edition		
850	<input type="checkbox"/> Headline	<input type="checkbox"/> Headline		
852	<input type="checkbox"/> Byline	<input type="checkbox"/> Byline		
854	<input type="checkbox"/> Lead	<input type="checkbox"/> Lead		
	<input type="checkbox"/> Body	<input type="checkbox"/> Body		
	<input type="checkbox"/> Notes	<input type="checkbox"/> Notes		
			Actions Clear Mapping Add Sibling above Add Sibling below Add Childred Add Attributes Delete Branch Compact View Show Representation	865

FIG. 26

826

XML - Mapper -- Microsoft Internet Explorer
File Edit View Favorites Tools Help

Component Builder

Home Quit Cancel Help

871 XML MAPPING ELEMENTS 872 [Redisplay] 874 [Sources] 876 [Upload DTD] [Save]

ELEMENTS 858

- Root
-
-
-
-

CONTROLS

Mapping Type
☐ Open ☒ M 868

Name Conversion
☐ Capital ☒ M 864

Table Mapping
☐ Complete ☒ M 866

Element Properties

Item Type
☐ Sequence ☒ M 860

Mapping
☐ Row Iterator ☒ M 862

Value
☐ Rpt Rpt ☒ M 863

870

FIG. 27

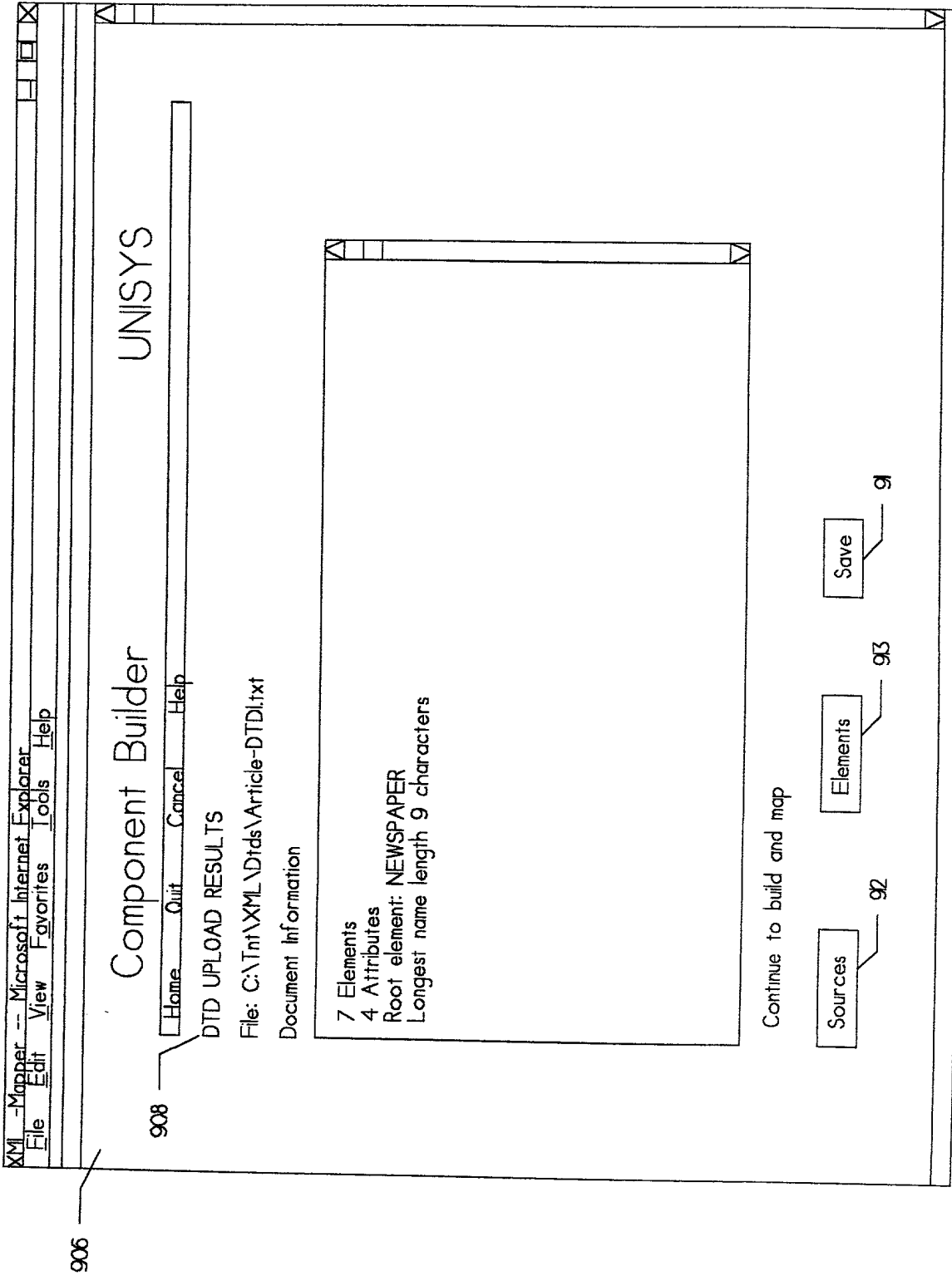


FIG. 28

IDT EXAMPLE

Version:AC:0.0 90
Truncation:AC:0 92
TypeCheck:AC:0 93
ShoeData:ED:0:R 94
From:DE:I:R
From:EV:Supplier:20:string
TableType:ED:I:R
TableType:EV:TableInfo:50:string
Inventory:ED:I:R
Inventory:BT:Inventory:7
Inventory:IH:ITEMNUMBER:I0
Inventory:IH:QTY:5
Inventory:IH:TYPE:I0
Inventory:IH:GENDER:6
Inventory:IH:SIZ:3
Inventory:IH:COLOR:3I
Inventory:IH:UNITCOST:I3
Date:AD:I:R
Date:AV:Date:I0:string
Time:AD:I:R
Time:AV:Time:5:string
Row:ED:2:R
Row:BR:I
ItemNr:ED:2:R
ItemNr:EF:I:ITEMNUMBER:I0:R:string
Quantity:AD:2:R
Quantity:AF:I:QTY:5:R:string
Type:ED:2:R
Type:EF:I:TYPE:I0:L:string
Gender:ED:2:0
Gender:EF:I:GENDER:6:L:string:UniSex
Size:ED:2:R
Size:EF:I:SIZ:3:L:string
Color:ED:3:0
Color:EF:I:COLOR:3I:L:string:White
Unitcost:ED:2:R
Unitcost:EF:I:UNITCOST:I3:R:string
Row:EE:2
Row:ER:a
Inventory:EE:I
Inventory:ET:I 96

FIG. 29

DID EXAMPLE 98

<!DOCTYPE ShoeData [

<!ELEMENT ShoeData (From, TableType, Inventory)>
<!ELEMENT From (#PCDATA)>
<!ELEMENT TableType (#PCDATA)>
<!ELEMENT Inventory (Row+)>
<!ATTLIST Inventory Date CDATA #REQUIRED>
<!ATTLIST Inventory Time CDATA #REQUIRED>
<!ELEMENT Row (ItemNr, Type, Gener?, Size, Color?, Unitcost)+>
<!ELEMENT ItemNr (#PCDATA)>
<!ATTLIST ItemNr Quantity CDATA #REQUIRED>
<!ELEMENT Type (#PCDATA)>
<!ELEMENT Gender (#PCDATA)>
<!ELEMENT Size (#PCDATA)>
<!ELEMENT Color (#PCDATA)>
<!ELEMENT Unitcost (#PCDATA)>

FIG. 30

XML INPUT DOCUMENT EXAMPLE

920

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<ShoeData>
  <From>Roseville Store</From>
  <TableType>Low Inventory Count</TableType>
  <Inventory Date>"2000-12-05" Time="11:51">
    <Row>
      <ItemNr Quantity="0">32335</ItemNr>
      <Type>Tennis</Type>
      <Gender>Mens</Gender>
      <Size>6</Size>
      <Color>White/Zen Grey/New Spruce</Color>
      <Unitcost>25.00</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="0">35410</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>5</Size>
      <Color>White/Zen Grey/Neptune Blue</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="0">35411</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>6</Size>
      <Color>White/Zen Grey/Neptune Blue</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="2">35420</ItemNr>
      <Type>Running</Type>
      <Gender>Womens</Gender>
      <Size>5</Size>
      <Color>White/Chlorine Blue/Hot Lime</Color>
      <Unitcost>19.70</Unitcost>
    </Row>
    <Row>
      <ItemNr Quantity="1">37421</ItemNr>
      <Type>Golf</Type>
      <Gender>Womens</Gender>
      <Size>8</Size>
      <Color>White/Fluorescent Pink</Color>
      <Unitcost>35.00</Unitcost>
    </Row>
  </Inventory>
</ShoeData>
  <Color>White/Black-Hot Lime, Neo Teak</Color>
  <Unitcost>40.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="0">32474</ItemNr>
  <Type>Tennis</Type>
  <Gender>Womens</Gender>
  <Size>8</Size>
  <Color>White/Light Marine-Ultramarine</Color>
  <Unitcost>25.00</Unitcost>
</Row>
<Row>
  <ItemNr Quantity="1">35310</ItemNr>
  <Type>Running</Type>
  <Gender>Mens</Gender>
  <Size>6</Size>
```

FIG. 31

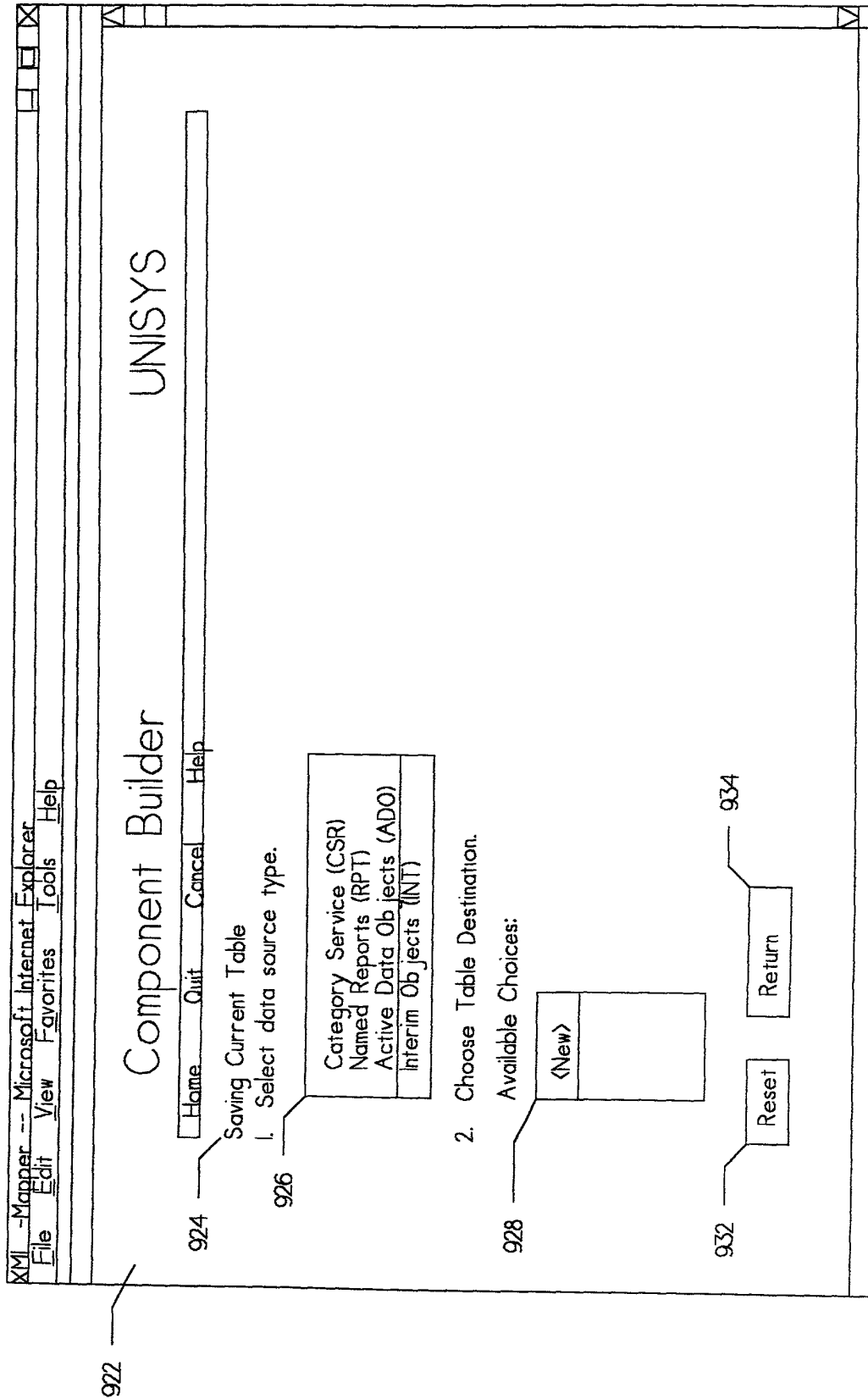


FIG. 32

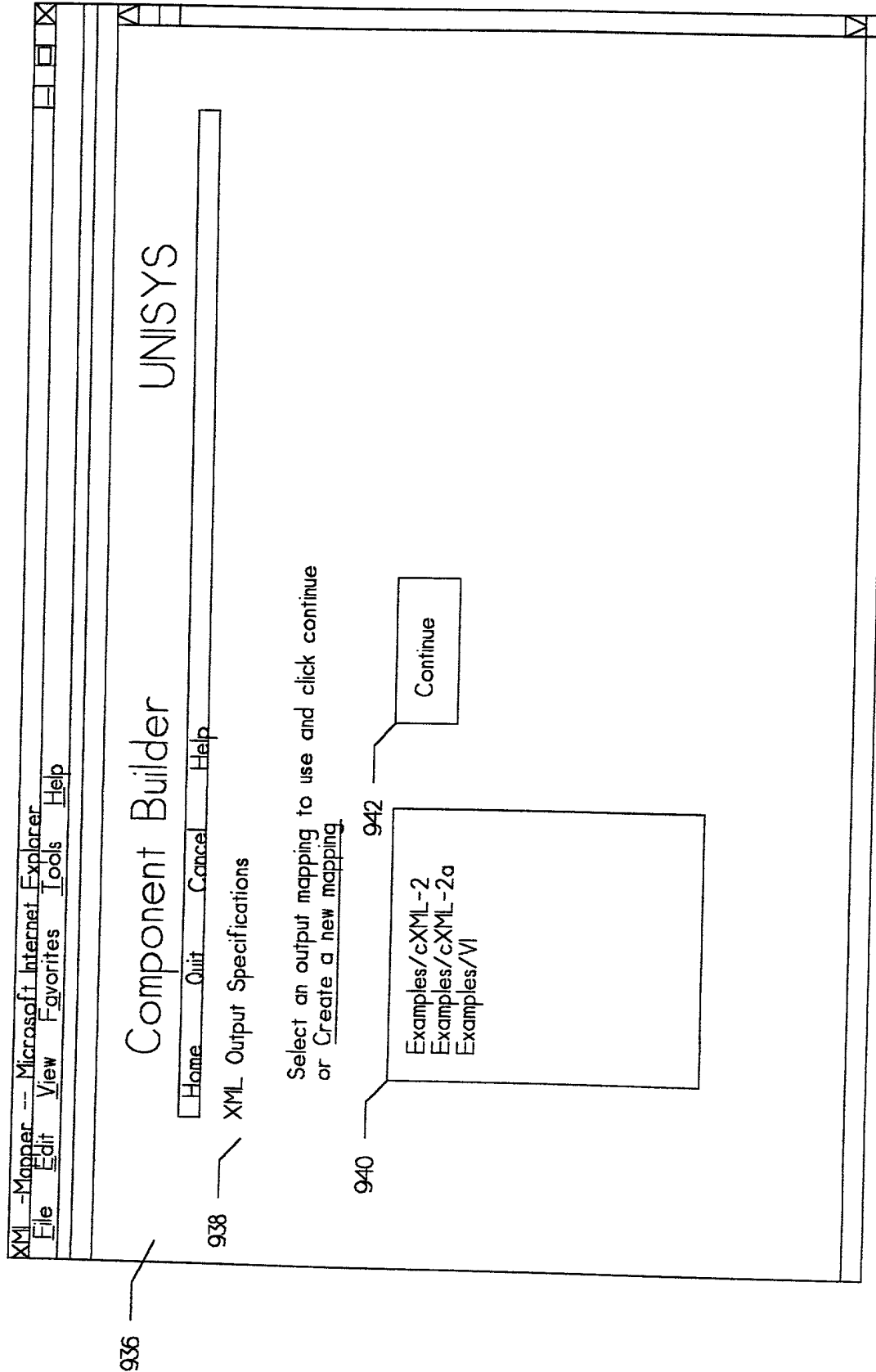


FIG. 33

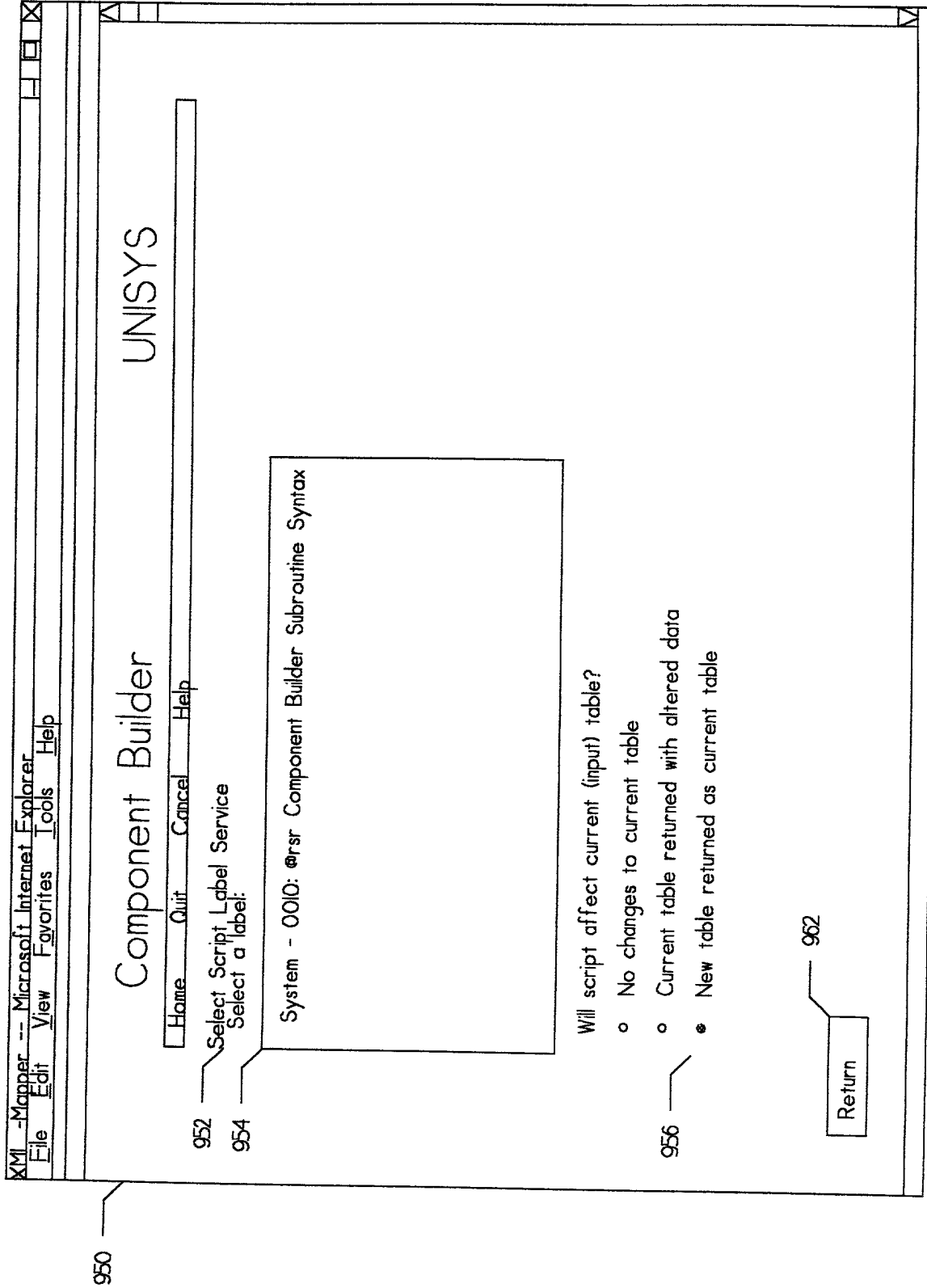


FIG. 34